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(57) Abstract

PROBLEM TO BE SOLVED: To use a computer with a user interface in a human-centered form and not in a computer-centered form by making the computer interactive in a multi-modal form such as voice, handwriting and gesture.

SOLUTION: Paper 2 on a real disk 1, an environment viewer 3, a pen input computer 4, a keyboard 9, a pen with scanner 8, a microphone 6, a speaker 5 and a camera 7 are provided. The pen input computer 4 displays the file of a virtual desk top and executes application as the interface of real paper and virtual paper by using the pen with scanner 8, which incorporates a small CCD camera in the pen. The desk top is displayed in the environment viewer 3 and an intelligent agent 10 and the like are displayed on the monitor. The displayed agent 10 extracts a user intention from the multi-modal indication from an instruction (by pen, voice and gesture) for the system, solves a problem and outputs a result.

